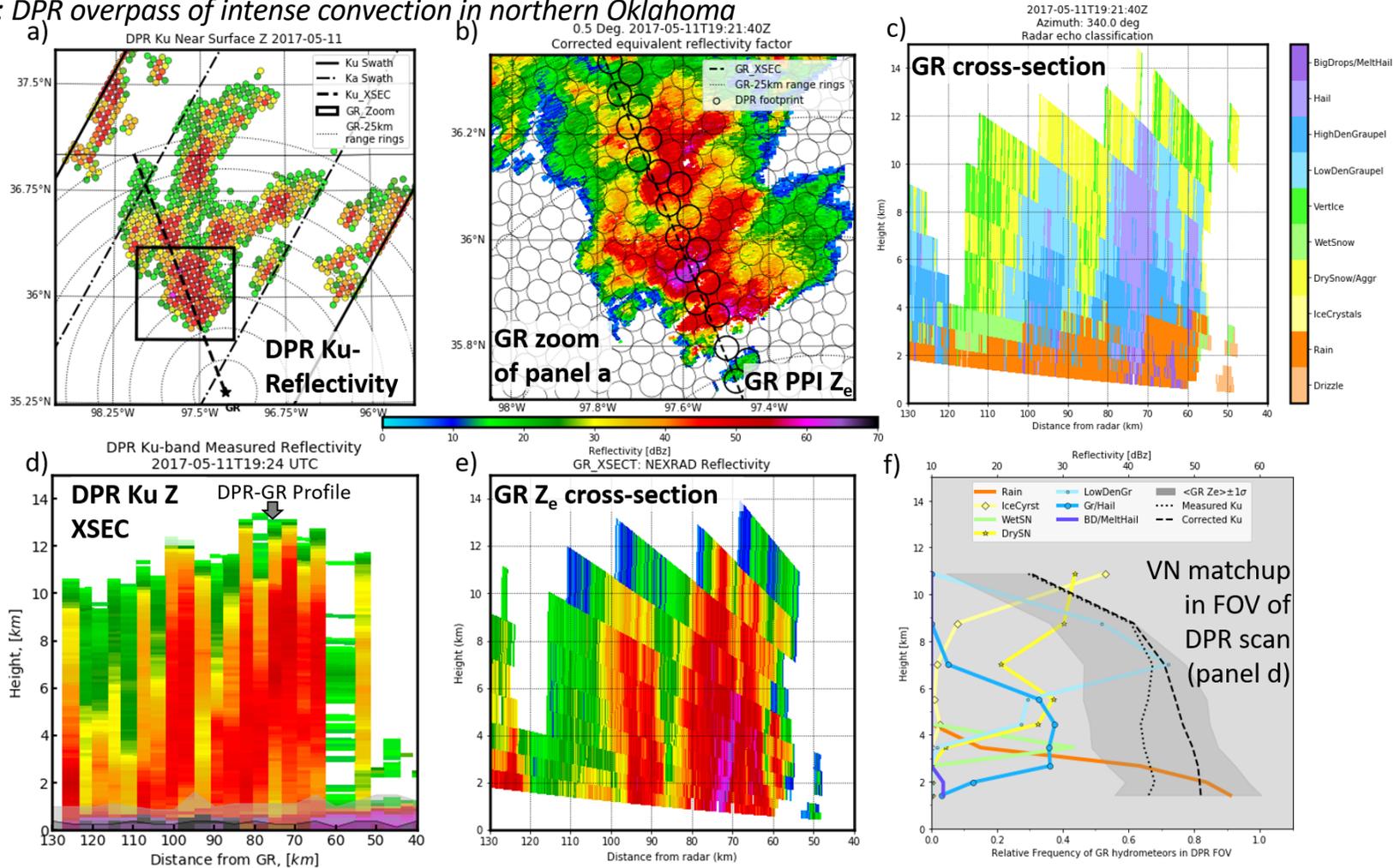


Additional GR sites:  
 La Reunion (MeteoFrance),  
 Darwin-CPOL (BoM/V.Louf/S.Collis),

Years: 2014-2019

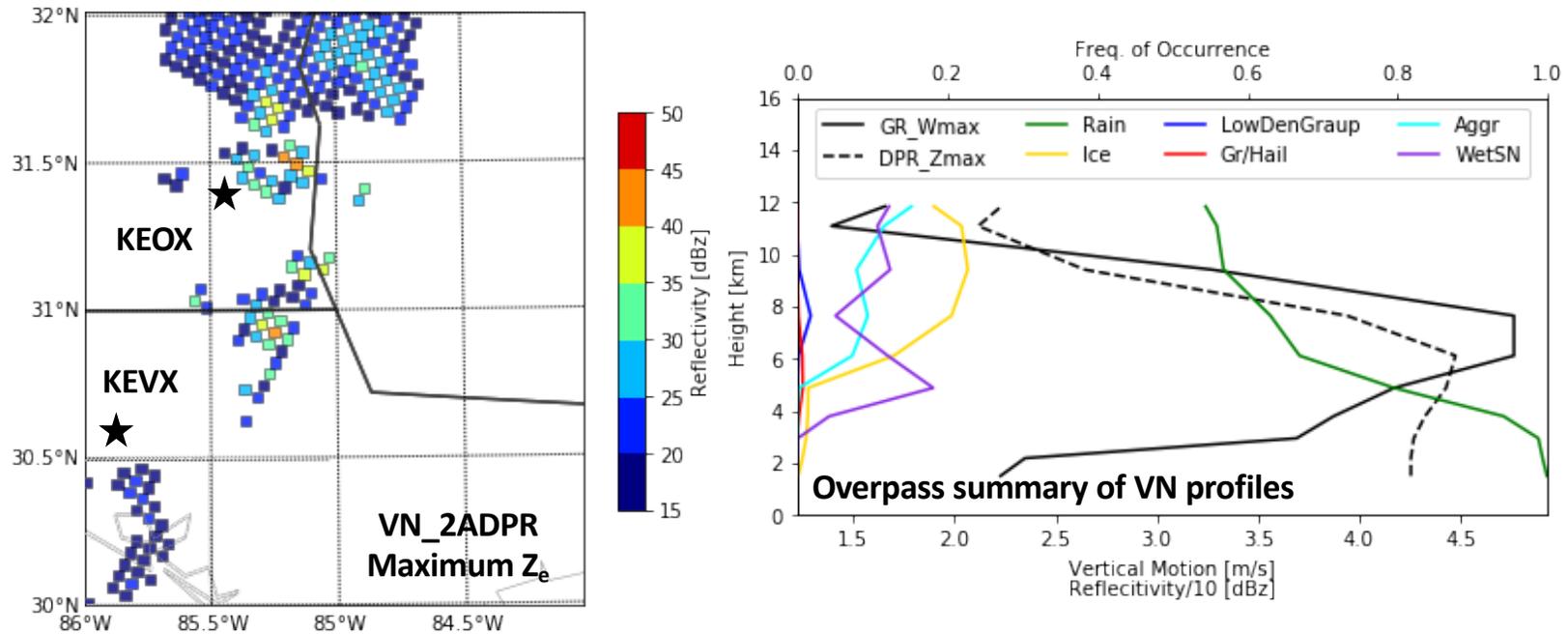
<b>Total number of GR bins Matched</b>	<b>6,339,462</b>
HID=Drizzle/Rain	36.8%
HID=Ice Crystals/Vert. Ice	27.2%
HID=Wet Snow	9.9%
HID=Aggregates	7.0%
HID=Hail/HDGR	7.9%
HID=Big Drops	1.7%
<b>Number of Matched Profiles (DPR+GR)</b>	<b>2,022,983</b>
Stratiform	75.5%
Convective	12.8%

Using VN to characterize multiple scattering and non-uniform beam filling to improve 2ADPR precipitation retrievals  
 Example: DPR overpass of intense convection in northern Oklahoma



# New to the VN: 3D wind retrieval from GR multi-Doppler via PyDDA (Shapiro et al. 2009, Potvin et al. 2012, Jackson et al. 2019)

GPM DPR Overpass of KEOX+KEVX 2019-07-09 03:54 UTC



- VN matchup files:

[https://pmm-gv.gsfc.nasa.gov/pub/gpm-validation/data/gpmgv/netcdf/geo\\_match/GPM/](https://pmm-gv.gsfc.nasa.gov/pub/gpm-validation/data/gpmgv/netcdf/geo_match/GPM/)

- GPM Field Campaign & Related GV datasets:

- <https://ghrc.nsstc.nasa.gov/pub/fieldCampaigns/gpmValidation/>

- VISAGE: Visualization tool for on-the-fly analysis of multiple GPM GV datasets

- CAPRI: Cloud-Based Analytic Framework for Precipitation Research

- VN in the cloud
- Facilitates creation of training datasets for AI-based applications